

**SYSTEM AND METHOD OF COLLECTING IMAGING SUBJECT  
POSITIONING INFORMATION FOR X-RAY FLUX CONTROL**

**ABSTRACT**

5           A system and method of diagnostic imaging is provided that includes positioning  
a subject in an imaging device, collecting positioning information of the subject from at  
least one sensor disposed in proximity of the imaging device, and determining a relative  
position of the subject within the imaging device from at least the position information.  
The present invention automatically selects a proper attenuation filter configuration,  
10       corrects patient centering, and corrects noise prediction errors, thereby increasing dose  
efficiency and tube output.